INTERNATIONAL SEARCH REPORT

Interned | Application No PCT/IB 03/04312

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 61185/02 G118 IPC 7 G11B5/39 G11B5/62 G11B5/74 G11B7/125 G11B23/03 G11B23/50 G11B17/04 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by dassification symbols) IPC 7 611B Documentation searched other than minimum documentation to the extent that such documents are included. In the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category * Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 5 995 309 A (KAWANO YUJI ET AL) 1-6,9-15 30 November 1999 (1999-11-30) figures 1-6,8,10,11,14; examples 1,4,6,8 7,8,16 X US 6 084 848 A (GOTO KENYA) 1-3,9-15 4 July 2000 (2000-07-04) column 1, line 12 - line 57 6-8, 16column 3, line 19 -column 11, line 39; figures 3-6B,11-13 EP 0 450 629 A (SONY CORP) 1-5, 9 October 1991 (1991-10-09) 10-14,16page 3, line 29 -page 7, line 50; figures 1,8,9,12,13,15,17 EP 0 120 990 A (IBM) A 1-9 10 October 1984 (1984-10-10) the whole document -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance Invention *E* earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed invention chation or other special reason (as specified) cannot be considered to involve an inventive step when the *O* document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docu-Other means ments, such combination being obvious to a person skilled document published prior to the international filing date but in the art. later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 23 December 2003 22/01/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Hermann, R Fex: (+31-70) 340-3018

Form PCT/ISA/210 (second sheet) (July 1992)

INTERNATIONAL SEARCH REPORT

Internal Application No PCT/IB 03/04312

C.(Continu	Itlen) DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/1B 03/04312		
Category •	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
Y	US 5 083 231 A (VEENSTRA KEVIN C ET AL) 21 January 1992 (1992-01-21) abstract	6-8		
Y	US 4 470 083 A (LINDBERG TERRANCE D ET AL) 4 September 1984 (1984-09-04) abstract	6-8		
Y	US 6 359 746 B1 (INOUE TETSUO ET AL) 19 March 2002 (2002-03-19) column 11, line 7 -column 21, line 7; figures 1-12 column 26, line 14 - line 48; figure 20	16		

INTERNATIONAL SEARCH REPORT

Internal Application No PCT/IB 03/04312

			101/10 03/04312				
Patent document cited in search report		Publication date	Patent family member(s)			Publication date	
US 5995309	Α	30-11-1999	JP	8249602	A	27-09-1996	
			US	5703733	Α	30-12-1997	
US 6084848	A	04-07-2000	JP	10143895	Α	29-05-1998	
			JP	10172166	Α	26-06-1998	
EP 0450629	Α	09-10-1991	JP	3290816	Α	20-12-1991	
			DE	69111866	D1	14-09-1999	
			DE	69111866	T2	07-12-199	
			EP	0450629	A1	09-10-1991	
~~~~~~~~~			US	5488519	A	30-01-1996	
EP 0120990	A	10-10-1984	DE	3379998	D1	06-07-1989	
			EP	0120990	A2	10-10-1984	
			JP	1668059	C	29-05-1992	
			JP	3034133	В	21-05-1991	
			JP	59185031	Α	20-10-1984	
			US	4746580	Α	24-05-1988	
US 5083231	Α	21-01-1992	DE	9109937	U1	19-12-1991	
US 4470083	Α	04-09-1984	NONE			ے ری چند شد ہے جی کہا کہ سے نہیں بات کہ کہ کا کا	
US 6359746	B1	19-03-2002	JP	9259556	Α	03-10-1997	
			ĴΡ	8138338		31-05-1996	
			ĴΡ	9082014		28-03-1997	